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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q88048

Masaru KURAMOTO, et al.

Appln. No.: 10/537,611

Group Art Unit: 2812

Confirmation No.: 4984

Examiner: Not Yet Assigned

Filed: June 3, 2005

For: NITRIDE SEMICONDUCTOR SUBSTRATE AND NITRIDE SEMICONDUCTOR DEVICE USING SAME

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A form and listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

1. Japanese Patent Application Publication No. 2001-102307, published April 13, 2001 (with English abstract).
2. Japanese Patent Application Publication No. 2001-320120, published November 16, 2001 (with English abstract).
3. Japanese Patent Application Publication No. 11-261160, published September 24, 1999 (with English abstract).

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

INFORMATION DISCLOSURE STATEMENT

U.S. Appln. No.: 10/537,611

Atty. Docket No.: Q88048

filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

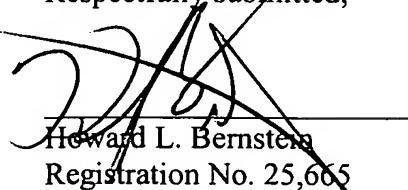
The present Information Disclosure Statement is being filed thirty days or fewer from the communication from a foreign patent office and a Statement Under 37 C.F.R. §1.704(d) is attached.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a corresponding Japanese Office Action, dated June 13, 2006, and an English translation of the pertinent portions thereof which cites such documents and indicates the degree for relevance found by the foreign office.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,


Howard L. Bernstein
Registration No. 25,665

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE
23373
CUSTOMER NUMBER

Date: July 13, 2006



PTO/SB/08a (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/537,611
				Filing Date	06-03-05
				First Named Inventor	Masaru KURAMOTO
				Art Unit	
				Examiner Name	
(Use as many sheets as necessary)					
Sheet	1	of	1	Attorney Docket Number Q88048	

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not Considered. Include of this form with next communication to applicant.

1. Applicant's unique citation designation number (optional) 2. See Kinds codes of USPTO patent Documwww.uspto.gov MPEP 901.04. 3. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3.) 4. For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450

Q88048



Reason

The inventions related to the following claims of the present application could have been easily invented by a person with ordinary knowledge of technology in the field to which the inventions belong prior to the filing of this application based on the inventions recited in the publications below, which had been distributed in Japan or abroad, or inventions which became publicly available via telecommunication lines, prior to the filing of this application, and therefore cannot receive a patent according to the stipulations of Article 29, Paragraph 2 of the Japan Patent Law.

Note (for the cited literature, see the List of Cited Literature)

- Regarding Claims 1, 2, 4 through 7, 9 through 13, 15 through 18, 20, and 21
Cited literature 1, 2, and 3

The technology of forming a good nitride layer by arranging a polycrystalline Al nitride compound on the mask material during crystal growing is disclosed in Cited Literature 2 (see especially the example of embodiment of Figure 10), and the technology of growing crystals with low dislocation by arranging a polycrystalline material in the crystal growing space is disclosed in Cited Literature 3 (see especially paragraph 0077). Thus, a person skilled in the art could easily conceive of applying the technology of reducing dislocation by arranging the polycrystalline material disclosed in Cited Literature 2 and 3 on the mask portion in the nitride semiconductor substrate and manufacturing method for same recited in Cited Literature 1, consisting of mask type crystal growing, thereby arriving at the constitution of the inventions relating to Claims 1, 2, 4 through 7, 9 through 13, 15 through 18, 20, and 21.

- Regarding Claims 3, 8, 14, and 19
Cited Literature 1, 2, and 3

Arranging a gap on the periphery of the mask member as in the limitations described in Claims 3, 8, 14, and 19 is disclosed in Cited Literature 2.

List of Cited Literature

1. Japanese Unexamined Patent Application Publication 2001-102307
2. Japanese Unexamined Patent Application Publication 2001-320120
3. Japanese Unexamined Patent Application Publication H11-261160



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STATEMENT UNDER 37 C.F.R. § 1.704(d)

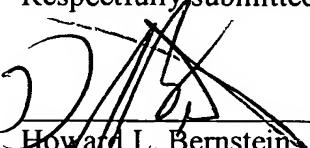
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The undersigned hereby states, upon information and belief:

That each item of information contained in the Information Disclosure Statement filed concurrently herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and that the communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of said Information Disclosure Statement.

Respectfully submitted,


Howard L. Bernstein
Registration No. 25,665

SUGHRUE MION, PLLC
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